*Crazy Conclusions*

Scientific conclusions are based on the data and observations collected during experimentation. However, sometimes during the process of data analysis, inferences can be applied to the data that result in false conclusions. For each the examples provided, identify if the conclusion drawn is true or false. If it is false, identify the inference that was applied to the data, causing the conclusion to be false.

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| **Data/Observations** | **Conclusion** | **True or False?** | **Inference** |
| Drunk drivers cause 20% of all road accidents.  Sober drivers cause 80% of all road accidents | It is safer to drive while drunk than to drive when sober. |  |  |
| 90% of automobile accidents occur within 3 miles of your home. | To reduce your chances of an automobile accident by 90%, park your car 3 miles away from your house and walk home. |  |  |
| 45% of people eat a diet with a variety of vitamins and minerals.  65% of people use shampoo with a variety of vitamins and minerals. | 55% of people should drink their shampoo to supplement the vitamins and minerals in their diets. |  |  |